

|  |  |   |
|--|--|---|
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |  | ATTORNEY'S DOCKET NUMBER<br>L0619.70003US01<br>U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><div style="font-size: 2em; font-weight: bold; text-align: center;">10/585216</div> |
| INTERNATIONAL APPLICATION NO.<br>PCT/US2004/043950   | INTERNATIONAL FILING DATE<br>29 December 2004 (29.12.2004) | PRIORITY DATE CLAIMED<br>30 December 2003 (30.12.2003)  |
| TITLE OF INVENTION     THIOPHENE DERIVATIVES FOR UP-REGULATING HLA-DM ACTIVITY   |  |   |
| APPLICANT(S) FOR DO/EO/US     NICHOLSON, Melissa; WUCHERPFENNIG, Kai; STEIN, Ross L.; YEH, Li-An; CUNY, Gregory D.   |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.<br>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.<br>4. <input type="checkbox"/> The US has been elected (Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))<br>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> has been communicated by the International Bureau.<br>c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<br>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).<br>a. <input type="checkbox"/> is attached hereto.<br>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<br>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br>d. <input checked="" type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).<br>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).<br>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). |  |   |
| <b>Items 11 to 20 below concern document(s) or information included:</b>   |  |   |
| 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input checked="" type="checkbox"/> A preliminary amendment.<br>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<br>15. <input type="checkbox"/> A substitute specification.<br>16. <input type="checkbox"/> A power of attorney and/or change of address letter.<br>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.<br>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).<br>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).<br>20. <input type="checkbox"/> Other items or information: PCT/IB/301; 304; 308; Published ISR; Published Application  |  |   |
| Express Mail No: EV716305123US   |  |   |

|  |                                     |   |            |  |              |
|--|-------------------------------------|---|------------|--|--------------|
| U.S. APPLICATION NO. <b>10/585216</b>  |                                     | INTERNATIONAL APPLICATION NO.<br>PCT/US2004/043950                            |            | ATTORNEY'S DOCKET NUMBER:<br>L0619.70003US01 |              |
| The following fees have been submitted   |                                     |   |            | CALCULATIONS                                 | PTO USE ONLY |
| 21.  | <input checked="" type="checkbox"/> | Basic national fee (37 CFR 1.492(a)).....                                     | \$300      | \$ 300.00                                    |              |
| 22.  | <input checked="" type="checkbox"/> | Examination fee (37 CFR 1.492(c))   |            |  |              |
| If the written opinion prepared by the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)....   |                                     |   |            |  |              |
| All other situations .....   |                                     |   |            | \$ 200.00                                    |              |
| 23.  | <input checked="" type="checkbox"/> | Search fee (37 CFR 1.492(b))  |            |  |              |
| If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....  |                                     |   |            |  |              |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....  |                                     |   |            |  |              |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB .....   |                                     |   |            |  |              |
| All other situations .....   |                                     |   |            | \$ 400.00                                    |              |
| TOTAL OF 21, 22 and 23 =   |                                     |   |            | \$ 900.00                                    |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |                                     |   |            |  |              |
| Total Sheets   | Extra sheets                        | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |  |              |
| - 100 =  | /50 =                               |   | x \$250.00 |  |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).  |                                     |   |            | \$   |              |
| CLAIMS   | NUMBER FILED                        | NUMBER EXTRA  | RATE       |  |              |
| Total claims   | - 20 =                              |   | x 50.00    | \$   |              |
| Independent claims   | - 3 =                               |   | x 200.00   | \$   |              |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)  |                                     |   | + 360.00   | \$   |              |
| TOTAL OF ABOVE CALCULATIONS =  |                                     |   |            | \$ 900.00                                    |              |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |                                     |   |            | \$ 450.00                                    |              |
| SUBTOTAL =   |                                     |   |            | \$ 450.00                                    |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).   |                                     |   |            | \$   |              |
| TOTAL NATIONAL FEE =   |                                     |   |            | \$ 450.00                                    |              |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |                                     |   |            | \$   |              |
| TOTAL FEES ENCLOSED =  |                                     |   |            | \$ 450.00                                    |              |
|  |                                     |   |            | Amount to be refunded:                       | \$           |
|  |                                     |   |            | Amount to be charged:                        | \$           |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ 450.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 23/2825 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, <u>excluding claims fees</u> or credit any overpayment to Deposit Account No. 23/2825. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> |                                     |   |            |  |              |
| <p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Wolf, Greenfield &amp; Sacks, P.C.<br/>600 Atlantic Avenue<br/>Boston, Massachusetts 02210-2206<br/>Tel. (617) 646-8000</p> <p>CUSTOMER NUMBER: <b>23628</b></p>  |                                     |   |            |  |              |
| <p><i>Pat R H Waller</i><br/>SIGNATURE:</p> <p>WALLER, Patrick R.H.</p> <p>NAME</p> <p>41,418</p> <p>REGISTRATION NUMBER</p>   |                                     |   |            |  |              |

10/585216

AP20 Rec'd PCT/PTO 30 JUN 2006

Application No. (if known):

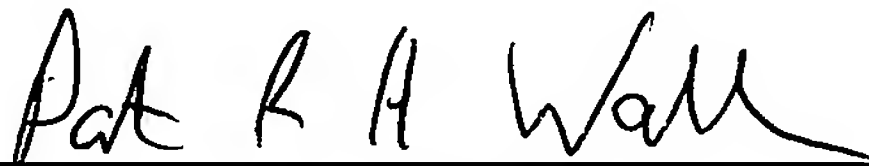
Attorney Docket No.: L0619.70003US01

## Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV716305123US in an envelope addressed to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on June 30, 2006  
Date



Signature

Patrick R.H. Waller

Typed or printed name of person signing Certificate

41,418

Registration Number, if applicable

(617) 646-8223

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Application Data Sheet (4 pages)